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ANSWER 41 OF 52 CA COPYRIGHT 2006 ACS on STN
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ED
ΤI
    Method of obtaining a ceramic material
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IN
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PΑ
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    Pol., 2 pp.
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    Patent
LΑ
    Polish
    C04B031-10; B01J002-28
IC
    57-2 (Ceramics)
    Section cross-reference(s): 58
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CLASS
PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES
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PL 129013 IC C04B031-10; B01J002-28
               IPCI C04B0031-10; B01J0002-28
    Ceramic materials are produced from fly ash and clays
AB
    accompanying coal deposits. Clays are slurried with water and optional fluidity improver, the resulting suspension is stabilized by
    adding 0.1-8 weight%, organic plasticizer(s) and fly
    ash is added. The liquid phase/solid phase ratio in the suspension
    is <1:1. Then, the suspension is classified and spray dried. The
    resulting granules are pressed and used for manufacture of ceramics, building
    materials, and refractories. Thus, clay was slurried with warm
    water to obtain a .apprx.10 weight% suspension, and water
    glass fluidity improver and styrene-acrylic copolymer plasticizer
    were added. Then, fly ash was added to give a 60%
    suspension having a viscosity of 90 mPa-s. The suspension was passed
    through a sieve (0.5 mm mesh size), spray dried, and granulated. The bulk
    d. of the granules containing .apprx.5 weight% moisture was 9.8 + 10-4
    kq/m3. Bending strength was 0.88 MPa after compacting at 20 MPa, 1.82 MPa
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after drying, and 38.8 MPa after firing at 1423 K. The

absorption ability after firing was ≤2 weight%.

ST clay fly ash ceramic manuf

IT Plasticizers